



Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide (Antisense)

5' GCT CGG GCT GCT GCT GGA ATC TT 3'

# Oligonucleotide Analysis

Molecular weight	6220.1	Analysis Parameters	
Tm thermodynamic		Delta G Temperature	25.0 degrees C
Filter Tm	70.8 degrees C	Probe concentration	0.6 pMol
% GC Tm	63.2 degrees C	Salt concentration	1000.0 mMol
AT+GC Tm	72.3 degrees C	Formamide concentration	0.0 %
Absorbance	64.0 degrees C	3' End length	7 bases
Absorbance	5.6 nMol/A260	Run length	4 bases
Percent GC	34.8 ug/A260	Palindrome length	8 bases
Delta G	60.0 %	Hairpin loop stem length	3 bases
Delta H	-37.5 kcal/Mol		
Delta S	-164.6 kcal/Mol		
3' End Delta G	-419.9 eu		
	-5.1 kcal/Mol		

## Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/		0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense)

5' ACT TGA CTG ACC TTC TTA CT 3'

Oligonucleotide Analysis

Molecular weight 6098.0  
 Tm thermodynamic 51.3 degrees C  
 Filter Tm 43.7 degrees C  
 % GC Tm 64.2 degrees C  
 AT+GC Tm 56.0 degrees C  
 Absorbance 5.6 nMol/A260  
 Absorbance 34.0 ug/A260  
 Percent GC 40.0 %  
 Delta G -26.5 kCal/Mol  
 Delta H -137.7 kCal/Mol  
 Delta S -365.8 eu  
 3' End Delta G -3.9 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 4 ( slmb primer ITS2-H)" a 24-mer DNA Oligonucleotide (Antisense)

5' ATA CTC TGC GGA CAT ACT TGA CTG 3'

Oligonucleotide Analysis

Molecular weight	7407.9
Tm thermodynamic	65.4 degrees C
Filter Tm	57.8 degrees C
% GC Tm	72.2 degrees C
AT+GC Tm	70.0 degrees C
Absorbance	4.4 nMol/A260
Absorbance	32.4 ug/A260
Percent GC	45.8 %
Delta G	-35.5 kCal/Mol
Delta H	-169.5 kCal/Mol
Delta S	-442.0 eu
3' End Delta G	-5.2 kCal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees C
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 5 ( slmb primer pro-L ) " a 24-mer DNA Oligonucleotide (Sense)

5' CAG TCT CGT CAA ACC AAG TCA AAC 3'

Oligonucleotide Analysis

Molecular weight	7354.9	Analysis Parameters	
Tm thermodynamic	67.8 degrees C	Delta G Temperature	25.0 degrees
Filter Tm	60.2 degrees C	Probe concentration	0.6 pMol
% GC Tm	72.2 degrees C	Salt concentration	1000.0 mMol
AT+GC Tm	70.0 degrees C	Formamide concentration	0.0 %
Absorbance	4.3 nMol/A260	3' End length	7 bases
Absorbance	31.4 ug/A260	Run length	4 bases
Percent GC	45.8 %	Palindrome length	8 bases
Delta G	-36.5 kCal/Mol	Hairpin loop stem length	3 bases
Delta H	-169.9 kCal/Mol		
Delta S	-439.7 eu		
3' End Delta G	-4.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 6 ( slmb primer Dloop-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' ATA ATC ATC CAG CAT AAA CAC AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7033.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic		Probe concentration	0.6 pMol
Filter Tm	61.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	53.6 degrees C	Formamide concentration	0.0 %
AT+GC Tm	66.4 degrees C	3' End length	7 bases
Absorbance	62.0 degrees C	Run length	4 bases
Absorbance	4.3 nMol/A260	Palindrome length	8 bases
Percent GC	30.0 ug/A260	Hairpin loop stem length	3 bases
Delta G	34.8 %		
Delta H	-32.9 kCal/Mol		
Delta S	-163.3 kCal/Mol		
3' End Delta G	-429.7 eu		
	-4.6 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 7 ( slmb primer ROD-L)" a 20-mer DNA Oligonucleotide (Sense)

5' CCT GGT AGA GTT CGC CGT CA 3'

Oligonucleotide Analysis

Molecular weight 6189.0  
 Tm thermodynamic 67.4 degrees C  
 Filter Tm 59.8 degrees C  
 % GC Tm 72.3 degrees C  
 AT+GC Tm 64.0 degrees C  
 Absorbance 5.3 nMol/A260  
 Absorbance 33.0 ug/A260  
 Percent GC 60.0 %  
 Delta G -34.7 kCal/Mol  
 Delta H -154.3 kCal/Mol  
 Delta S -394.4 eu  
 3' End Delta G -9.6 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

5' CGT GTT CCT TAT CAT TGT GCC T 3'

Oligonucleotide Analysis

Molecular weight	6738.4	Analysis Parameters	Delta G Temperature	25.0 degrees C
Tm thermodynamic	66.4 degrees C		Probe concentration	0.6 pMol
Filter Tm	58.8 degrees C		Salt concentration	1000.0 mMol
% GC Tm	69.5 degrees C		Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C		3' End length	7 bases
Absorbance	5.2 nMol/A260		Run length	4 bases
Absorbance	34.9 ug/A260		Palindrome length	8 bases
Percent GC	45.5 %		Hairpin loop stem length	3 bases
Delta G	-35.4 kcal/Mol			
Delta H	-165.0 kcal/Mol			
Delta S	-427.3 eu			
3' End Delta G	-7.9 kcal/Mol			

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		



5' CAC CAG CCA AGT ATG TTT CTC 3'

*Oligo*  
Molecular weight  
T<sub>m</sub> thermodynamic

Molecular weight	6421.2
T <sub>m</sub> thermodynamic	61.5 degrees C
Filter T <sub>m</sub>	53.9 degrees C
% GC T <sub>m</sub>	68.9 degrees C
AT+GC T <sub>m</sub>	62.0 degrees C
Absorbance	5.1 nMol/A260
Absorbance	33.0 ug/A260
Percent GC	47.6 %
Delta G	-31.9 kCal/Mol
Delta H	-152.3 kCal/Mol
Delta S	-396.4 eu
3' End Delta G	-4.9 kCal/Mol

## Analysis Parameters

Delta G Temperature	25.0	degrees C
Probe concentration	0.6	pMol
Salt concentration	1000.0	mMol
Formamide concentration	0.0	%
3' End length	7	bases
Run length	4	bases
Palindrome length	8	bases
Hairpin loop stem length	3	bases

## Structural Analysis Summary

Number of base runs	/	palindromes	0	/	0
Number of hairpin loops			0		
Number of dimers	/	2-oligo dimers	0	/	0
Number of bulge loops	/	2-oligo bulges	0	/	0
Number of internal loops	/	2-oligo internals	0	/	0

Analysis of "table 10 ( LRMB primer 16S-H )" a 18-mer DNA Oligonucleotide (Antisense)

5' TCG TAG TTC AGC AGT CAG 3'

Oligonucleotide Analysis

Molecular weight	5594.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic	51.2 degrees C	Probe concentration	0.6 pMol
Filter Tm	43.6 degrees C	Salt concentration	1000.0 mMol
% GC Tm	64.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	54.0 degrees C	3' End length	7 bases
Absorbance	5.7 nMol/A260	Run length	4 bases
Absorbance	31.8 ug/A260	Palindrome length	8 bases
Percent GC	50.0 %	Hairpin loop stem length	3 bases
Delta G	-25.3 kCal/Mol		
Delta H	-123.0 kCal/Mol		
Delta S	-320.5 eu		
3' End Delta G	-4.9 kCal/Mol		

Analysis Parameters

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 11 ( LRMB primer 12S-L )" a 19-mer DNA Oligonucleotide (Sense)

5' CTA TTC GCC TCG CTC AGA C 3'

Oligonucleotide Analysis

Molecular weight	5779.8
Tm thermodynamic	62.1 degrees C
Filter Tm	54.5 degrees C
% GC Tm	69.7 degrees C
AT+GC Tm	60.0 degrees C
Absorbance	6.0 nMol/A260
Absorbance	34.6 ug/A260
Percent GC	57.9 %
Delta G	-31.8 kCal/Mol
Delta H	-146.6 kCal/Mol
Delta S	-378.6 eu
3' End Delta G	-4.6 kCal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 12 ( LRMB primer 12S-H )" a 23-mer DNA Oligonucleotide (Antisense)

5' GCC TCC ATC ATC CCT CAC CTT AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6895.5	Delta G Temperature	25.0 degrees C
Tm thermodynamic	70.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	63.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	75.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	72.0 degrees C	3' End length	7 bases
Absorbance	5.1 nMol/A260	Run length	4 bases
Absorbance	34.9 ug/A260	Palindrome length	8 bases
Percent GC	56.5 %	Hairpin loop stem length	3 bases
Delta G	-38.9 kCal/Mol		
Delta H	-174.6 kCal/Mol		
Delta S	-448.9 eu		
3' End Delta G	-5.1 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 13 ( DTMB primer 16S-H )" a 20-mer DNA Oligonucleotide (Antisense)

5' CTC CGT CCG TCT CGC CTC TG 3'

Oligonucleotide Analysis

Molecular weight	6052.0
Tm thermodynamic	71.7 degrees C
Filter Tm	64.1 degrees C
% GC Tm	76.4 degrees C
AT+GC Tm	68.0 degrees C
Absorbance	6.1 nMol/A260
Absorbance	37.2 ug/A260
Percent GC	70.0 %
Delta G	-37.1 kCal/Mol
Delta H	-157.8 kCal/Mol
Delta S	-398.9 eu
3' End Delta G	-7.9 kCal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 14 (DTMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense)

5' AAA TCC GCC CTT ATG TGT GTT C 3'

Oligonucleotide Analysis

Molecular weight 6756.4  
 Tm thermodynamic 67.9 degrees C  
 Filter Tm 60.3 degrees C  
 % GC Tm 69.5 degrees C  
 AT+GC Tm 64.0 degrees C  
 Absorbance 4.9 nMol/A260  
 Absorbance 33.3 ug/A260  
 Percent GC 45.5 %  
 Delta G -36.9 kcal/Mol  
 Delta H -171.5 kcal/Mol  
 Delta S -444.2 eu  
 3' End Delta G -4.9 kcal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0	/	0
Number of hairpin loops	/	2-oligo dimers	0	/	0
Number of dimers	/	2-oligo bulges	0	/	0
Number of bulge loops	/	2-oligo internals	0	/	0
Number of internal loops	/		0	/	0

Analysis of "table 15 ( DTM primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

5' CAT CGG CTT GCT CTA TTC CTT G 3'

Oligonucleotide Analysis				Analysis Parameters			
Molecular weight	6723.4	degrees C		Delta G Temperature	25.0	degrees C	
Tm thermodynamic	68.8	degrees C		Probe concentration	0.6	pMol	
Filter Tm	61.2	degrees C		Salt concentration	1000.0	mMol	
% GC Tm	71.3	degrees C		Formamide concentration	0.0	%	
AT+GC Tm	66.0	degrees C		3' End length	7	bases	
Absorbance	5.3	nMol/A260		Run length	4	bases	
Absorbance	35.5	ug/A260		Palindrome length	8	bases	
Percent GC	50.0	%		Hairpin loop stem length	3	bases	
Delta G	-37.5	kCal/Mol					
Delta H	-172.0	kCal/Mol					
Delta S	-444.3	eu					
3' End Delta G	-7.0	kCal/Mol					

# Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 16 ( DTMB primer 12S-L )" a 19-mer DNA Oligonucleotide (Sense)

5' TCT ATC GGC GGC GTA TCA C 3'

Oligonucleotide Analysis

Molecular weight	5859.8
Tm thermodynamic	65.8 degrees C
Filter Tm	58.2 degrees C
% GC Tm	69.7 degrees C
AT+GC Tm	60.0 degrees C
Absorbance	5.7 nMol/A260
Absorbance	33.4 ug/A260
Percent GC	57.9 %
Delta G	-33.9 kCal/Mol
Delta H	-152.5 kCal/Mol
Delta S	-391.2 eu
3' End Delta G	-3.5 kCal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		



Analysis of "table 17 ( TCMB primer 16S-H )" a 21-mer DNA Oligonucleotide (Antisense)

5' GGC GAT TCT ACG GCA CGG GCG 3'

Oligonucleotide Analysis

Molecular weight 6568.3  
 Tm thermodynamic 80.4 degrees C  
 Filter Tm 72.8 degrees C  
 % GC Tm 78.6 degrees C  
 AT+GC Tm 72.0 degrees C  
 Absorbance 5.1 nMol/A260  
 Absorbance 33.3 ug/A260  
 Percent GC 71.4 %  
 Delta G -44.7 kCal/Mol  
 Delta H -186.4 kCal/Mol  
 Delta S -468.6 eu  
 3' End Delta G -12.8 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 18 ( TCMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)

5' AAA CTG CTC CTC AAC TAT GTC A 3'

Oligonucleotide Analysis

Molecular weight	6758.5
Tm thermodynamic	60.7 degrees C
Filter Tm	53.1 degrees C
% GC Tm	67.6 degrees C
AT+GC Tm	62.0 degrees C
Absorbance	4.7 nMol/A260
Absorbance	31.7 ug/A260
Percent GC	40.9 %
Delta G	-31.7 kCal/Mol
Delta H	-153.3 kCal/Mol
Delta S	-400.5 eu
3' End Delta G	-4.1 kCal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees C
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 19 ( TCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

5' CCG ATT CAG CCA CGA TTC CCT C 3'

Oligonucleotide Analysis

Molecular weight	6671.4
Tm thermodynamic	74.6 degrees C
Filter Tm	67.0 degrees C
% GC Tm	75.0 degrees C
AT+GC Tm	70.0 degrees C
Absorbance	5.1 nMol/A260
Absorbance	34.2 ug/A260
Percent GC	59.1 %
Delta G	-40.8 kcal/Mol
Delta H	-176.0 kcal/Mol
Delta S	-447.5 eu
3' End Delta G	-7.9 kcal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees C
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 20 ( TCMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense)

5' CCT AAA GCC CAG ATA ACT ACA 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6432.3	Delta G Temperature	25.0 degrees C
Tm thermodynamic	59.2 degrees C	Probe concentration	0.6 pMol
Filter Tm	51.6 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.9 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	4.8 nMol/A260	Run length	4 bases
Absorbance	30.6 ug/A260	Palindrome length	8 bases
Percent GC	42.9 %	Hairpin loop stem length	3 bases
Delta G	-31.7 kCal/Mol		
Delta H	-159.4 kCal/Mol		
Delta S	-421.0 eu		
3' End Delta G	-3.9 kCal/Mol		

Structural Analysis Summary		
Number of base runs	/ palindromes	0 / 0
Number of hairpin loops	/	0 / 0
Number of dimers	/ 2-oligo dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 21 (PCMB primer 16S-H )" a 22-mer DNA Oligonucleotide(Antisense)

5' CGT GTT CTG ATG ATG ATG TGC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6867.5	Delta G Temperature	25.0 degrees C
Tm thermodynamic	64.7 degrees C	Probe concentration	0.6 pMol
Filter Tm	57.1 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	7 bases
Absorbance	4.9 nMol/A260	Run length	4 bases
Absorbance	33.4 ug/A260	Palindrome length	8 bases
Percent GC	45.5 %	Hairpin loop stem length	3 bases
Delta G	-33.0 kcal/Mol		
Delta H	-150.2 kcal/Mol		
Delta S	-385.9 eu		
3' End Delta G	-6.3 kcal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 22 ( PCMB primer 16S-L )" a 19-mer DNA Oligonucleotide (Sense)

5' ATT CCT TCC TCT TAG TAT G 3'

Oligonucleotide Analysis

Molecular weight 5799.8  
 Tm thermodynamic 49.5 degrees C  
 Filter Tm 41.9 degrees C  
 % GC Tm 61.1 degrees C  
 AT+GC Tm 52.0 degrees C  
 Absorbance 5.8 nMol/A260  
 Absorbance 33.6 ug/A260  
 Percent GC 36.8 %  
 Delta G -26.1 kcal/Mol  
 Delta H -138.8 kcal/Mol  
 Delta S -371.5 eu  
 3' End Delta G -3.1 kcal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

**Analysis of**

<b>5'</b>	<b>GCT GAA CTT ACT ATG CCC TAC T</b>	<b>3'</b>
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Structural Analysis Summary		
	/	
Number of base runs	/	palindromes
Number of hairpin loops		0 / 0
Number of dimers	/	2-oligo dimers
Number of bulge loops	/	2-oligo bulges
Number of internal loops	/	2-oligo internals
		0 / 0

Analysis of "table 24 ( PCMB primer 12S-L )" a 20-mer DNA Oligonucleotide (Sense)

5' CCG ATT GAC GCC GAA CTA TG 3'

Oligonucleotide Analysis

Molecular weight	6182.1
Tm thermodynamic	68.1 degrees C
Filter Tm	60.5 degrees C
% GC Tm	70.3 degrees C
AT+GC Tm	62.0 degrees C
Absorbance	5.3 nMol/A260
Absorbance	32.5 ug/A260
Percent GC	55.0 %
Delta G	-35.6 kCal/Mol
Delta H	-159.4 kCal/Mol
Delta S	-408.5 eu
3' End Delta G	-4.1 kCal/Mol

Analysis Parameters

Delta G Temperature	25.0 degrees
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		



Analysis of "table 25 ( SLMB primer 16S-H )" a 18-mer DNA Oligonucleotide (Antisense)

5' TAC GCA TAA CGG CTC TGG 3'

## Oligonucleotide Analysis

Molecular weight 5579.7  
 Tm thermodynamic 61.4 degrees C  
 Filter Tm 53.8 degrees C  
 % GC Tm 66.8 degrees C  
 AT+GC Tm 56.0 degrees C  
 Absorbance 5.9 nMol/A260  
 Absorbance 32.8 ug/A260  
 Percent GC 55.6 %  
 Delta G -31.0 kcal/Mol  
 Delta H -143.5 kcal/Mol  
 Delta S -370.2 eu  
 3' End Delta G -7.9 kcal/Mol

## Analysis Parameters

Delta G Temperature 25.0 degrees C  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

## Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

5' CTA CTA CAC CTC AAC TAC ATC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6638.4	Delta G Temperature	25.0 degrees
Tm thermodynamic	52.4 degrees	Probe concentration	0.6 pMol
Filter Tm	44.8 degrees	Salt concentration	1000.0 mMol
% GC Tm	67.6 degrees	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees	3' End length	7 bases
Absorbance	4.9 nMol/A260	Run length	4 bases
Absorbance	32.8 ug/A260	Palindrome length	8 bases
Percent GC	40.9 %	Hairpin loop stem length	3 bases
Delta G	-27.6 kCal/Mol		
Delta H	-146.8 kCal/Mol		
Delta S	-392.2 eu		
3' End Delta G	-3.8 kCal/Mol		

Structural Analysis Summary		
Number of base runs	/	palindromes
Number of hairpin loops		0 / 0
Number of dimers	/	2-oligo dimers
Number of bulge loops	/	2-oligo bulges
Number of internal loops	/	2-oligo internals
		0 / 0

Analysis of "table 27 ( SLMB primer 12S-H )" a 19-mer DNA Oligonucleotide (Antisense)

5' CCC ACT CAC TGC TAA CTC C 3'

Oligonucleotide Analysis			Analysis Parameters		
Molecular weight	5708.8		Delta G Temperature	25.0 degrees C	
Tm thermodynamic	58.4 degrees C		Probe concentration	0.6 pMol	
Filter Tm	50.8 degrees C		Salt concentration	1000.0 mMol	
% GC Tm	69.7 degrees C		Formamide concentration	0.0 %	
AT+GC Tm	60.0 degrees C		3' End length	7 bases	
Absorbance	6.1 nMol/A260		Run length	4 bases	
Absorbance	35.0 ug/A260		Palindrome length	8 bases	
Percent GC	57.9 %		Hairpin loop stem length	3 bases	
Delta G	-29.4 kCal/Mol				
Delta H	-138.5 kCal/Mol				
Delta S	-359.0 eu				
3' End Delta G	-5.4 kCal/Mol				

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 28 ( SLMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense)

5' GGC TAA CTA CAA TCA TCT GCT 3'

# Oligonucleotide Analysis

Molecular weight

Tm thermodynamic

Filter Tm

% GC Tm

AT+GC Tm

Absorbance

Absorbance

Percent GC

Delta G

Delta H

Delta S

3' End Delta G

## Analysis Parameters

Delta G Temperature 25.0 degrees C  
 Probe concentration 0.6 pMol  
 Salt concentration 1000.0 mMol  
 Formamide concentration 0.0 %  
 3' End length 7 bases  
 Run length 4 bases  
 Palindrome length 8 bases  
 Hairpin loop stem length 3 bases

## Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0